FIG. 1
(PRIOR ART)

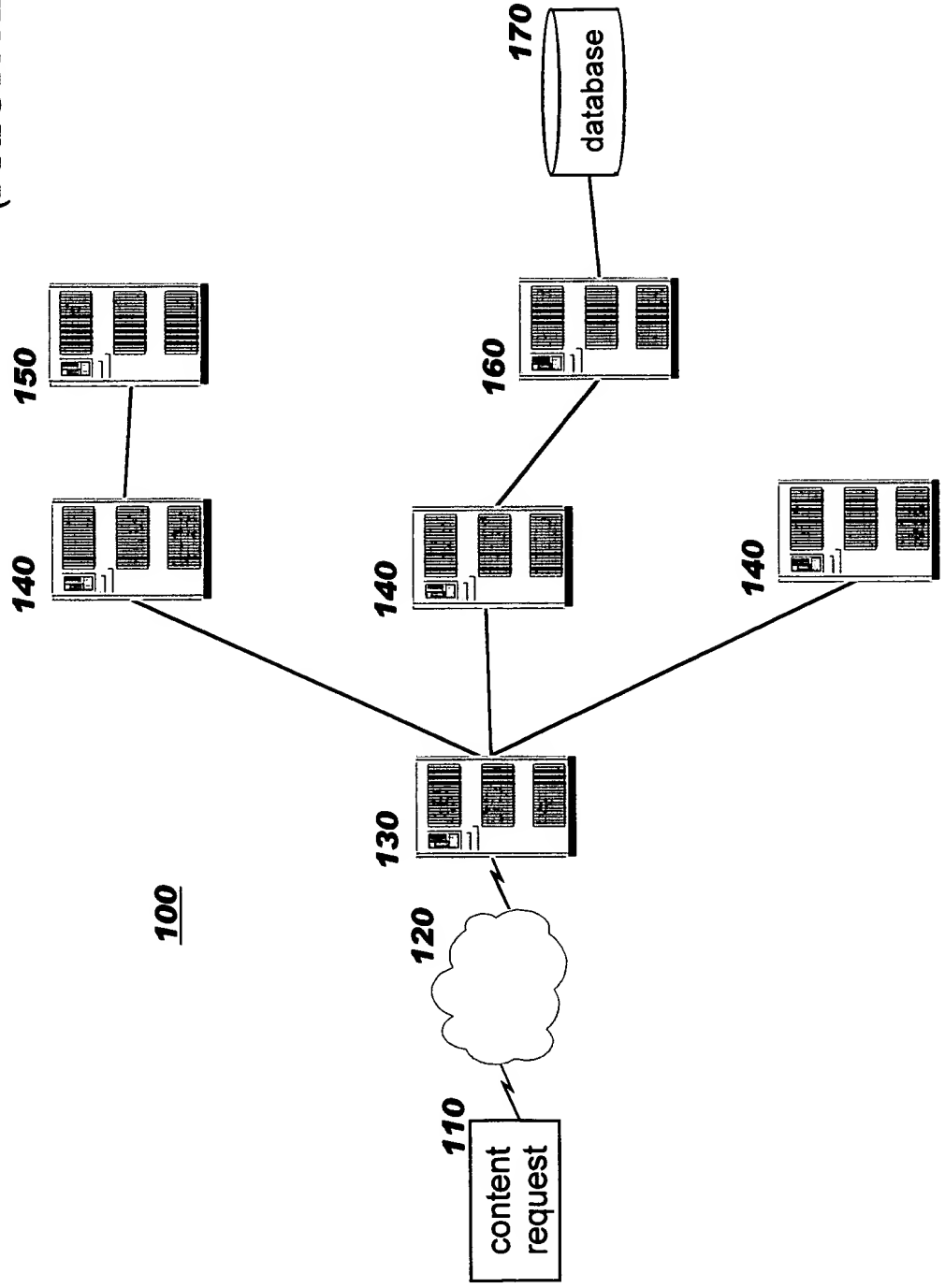


FIG. 2

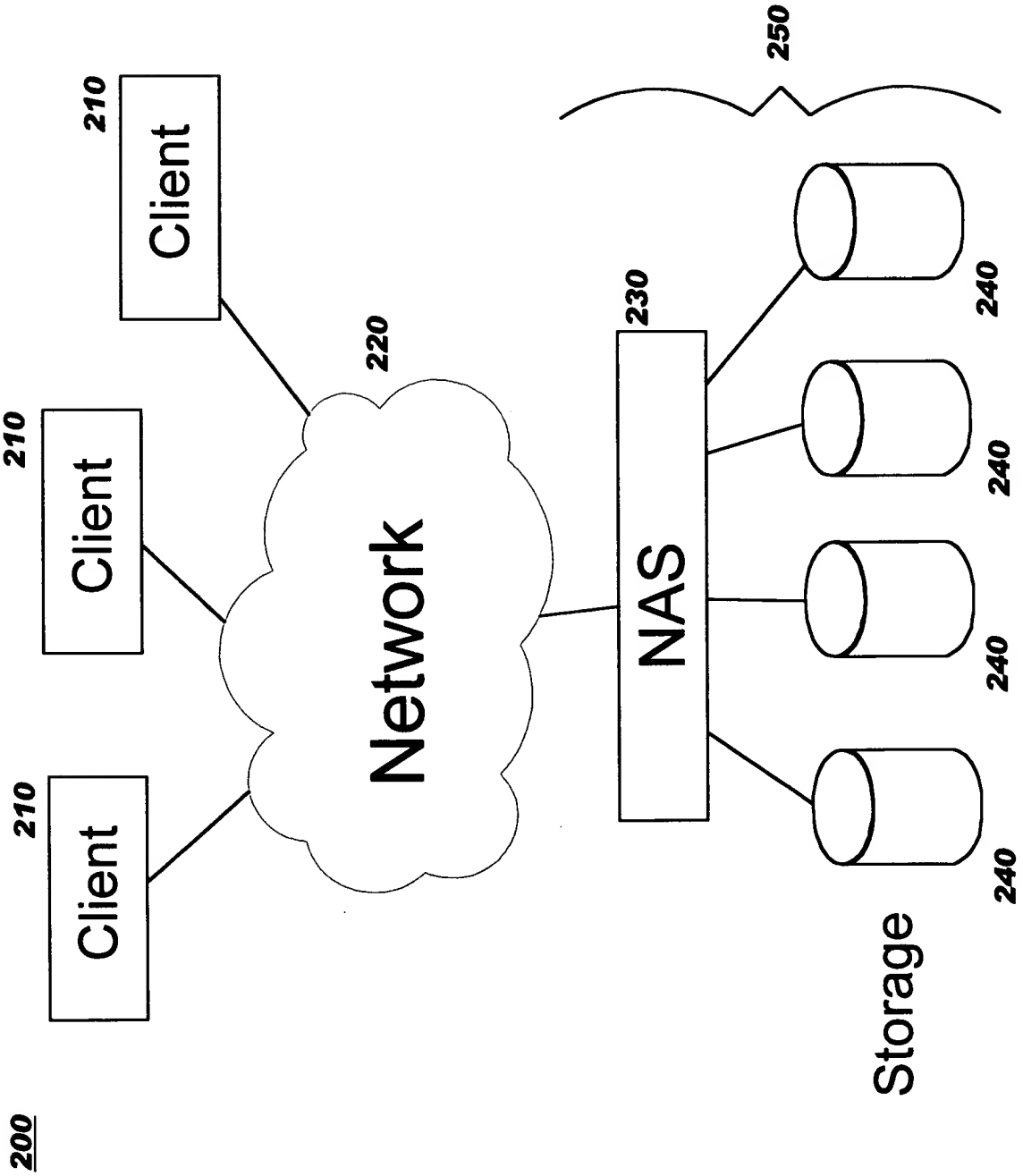
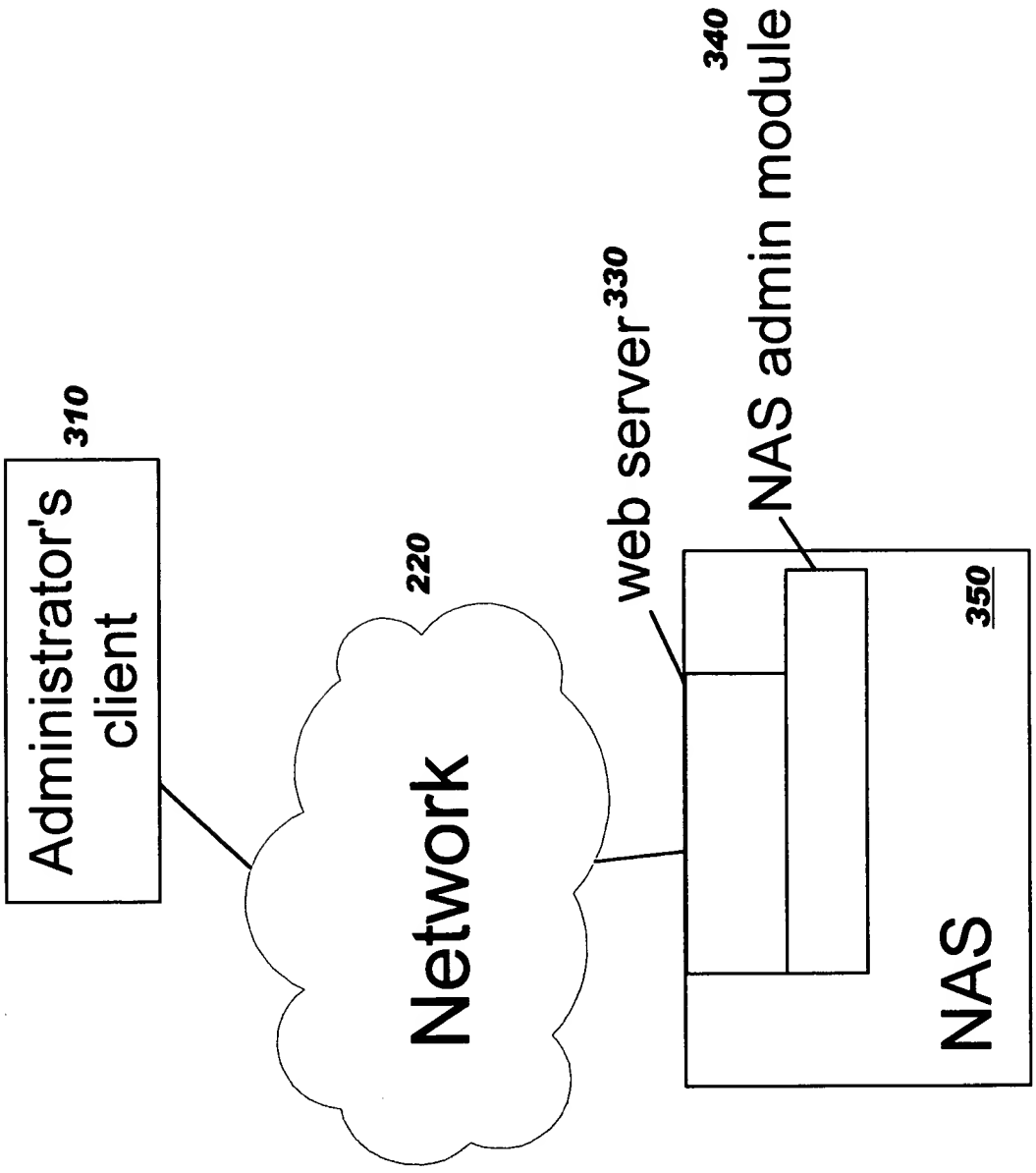

200
Client
210
Client
210
Client
210
Network
220
NAS
230
250
Storage
240
240
240
240

FIG. 3


Administrator's client
310
Network
220
web server
330
NAS admin module
340
NAS
350

T00E80" 095Eh660

FIG. 4

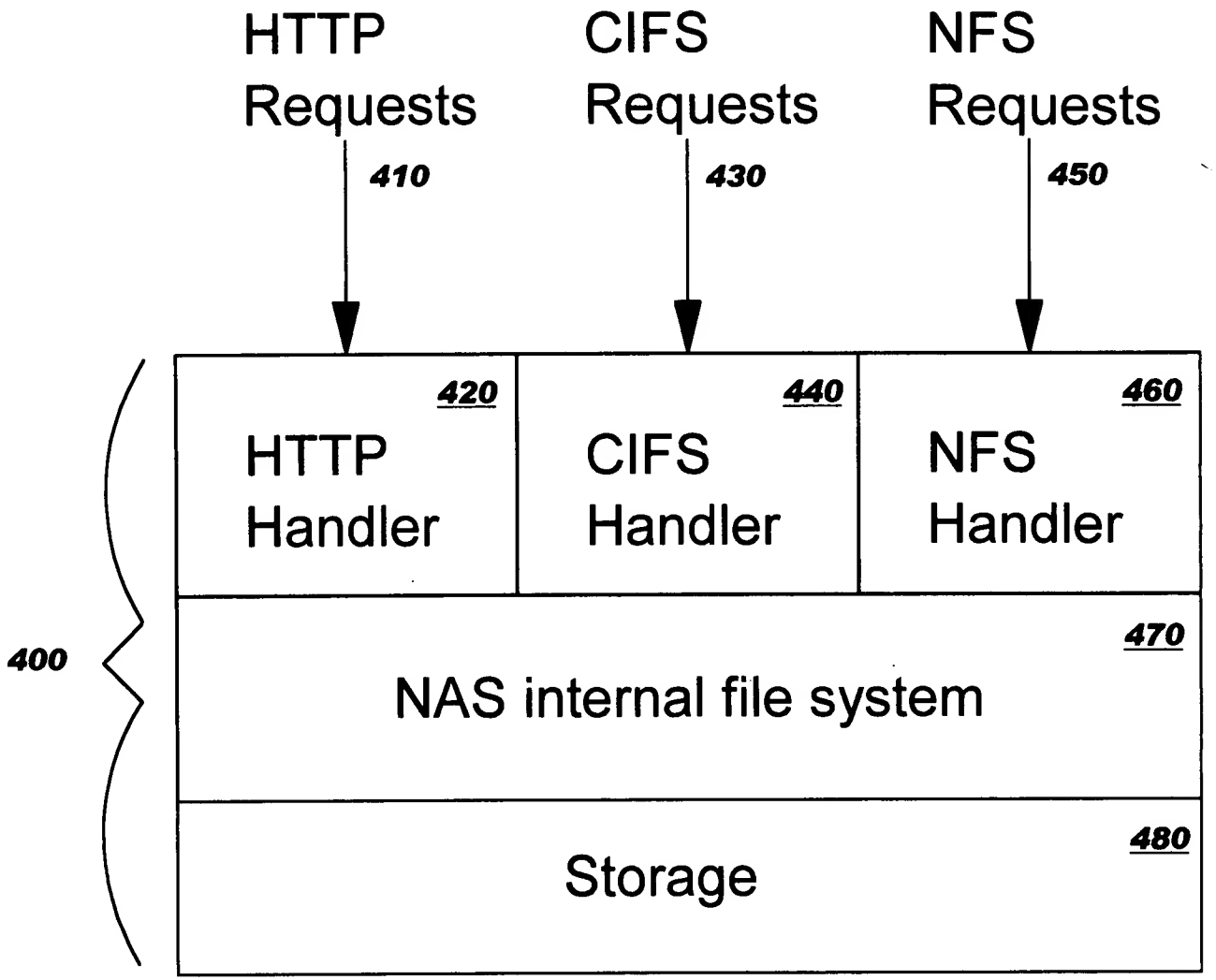


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FIG. 5

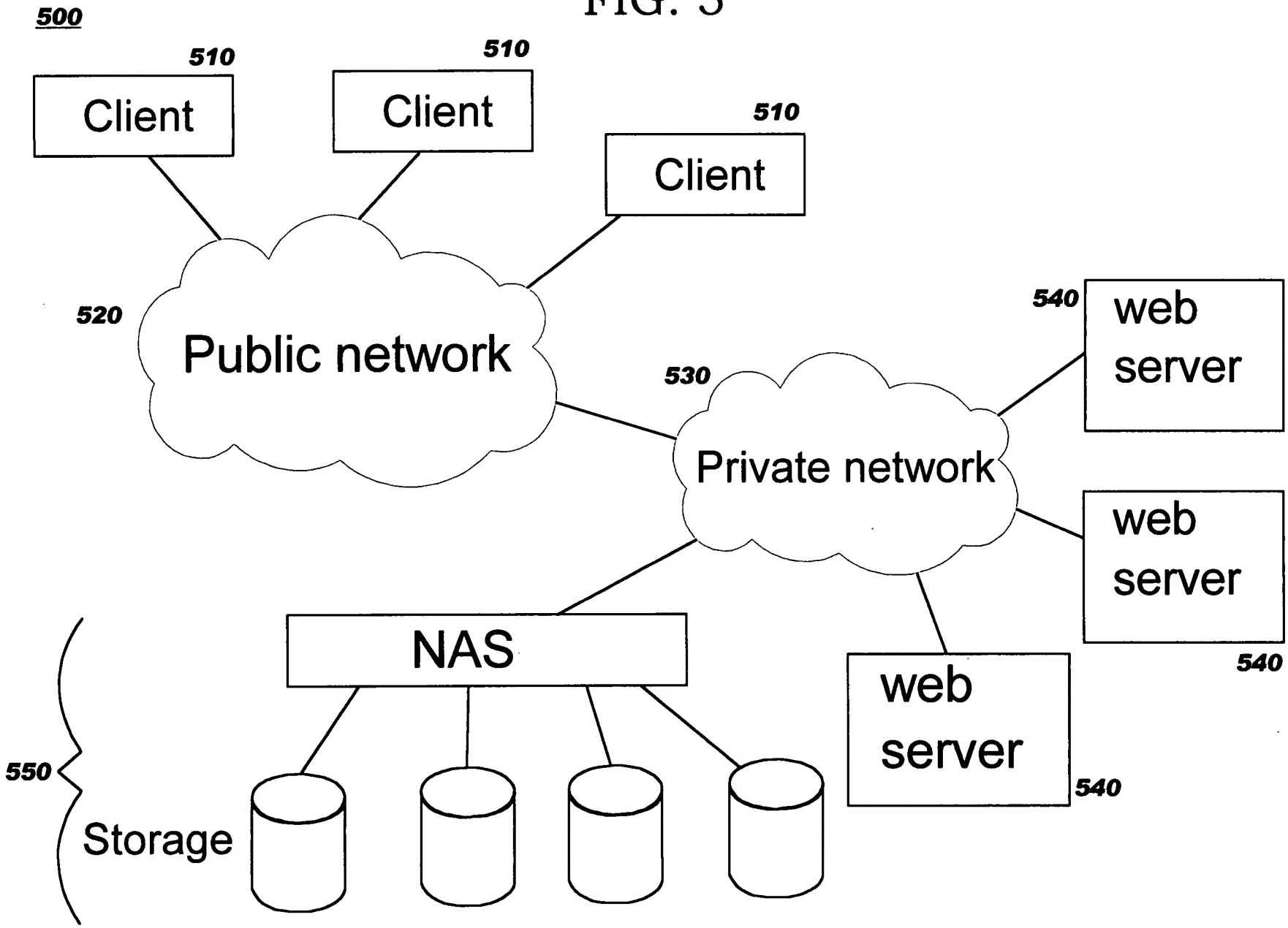

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FIG. 6

600	Object	602 Usage in current sampling interval	604 Period-to-date usage
610	http://www.ibm.com	76,543	1,234,567
620	www.ibm.com/legal/copytrade.shtml	21	74
630	http://www.ibm.com/us/images/module_ebusiness.gif	80,808	1,333,555

FIG. 7A

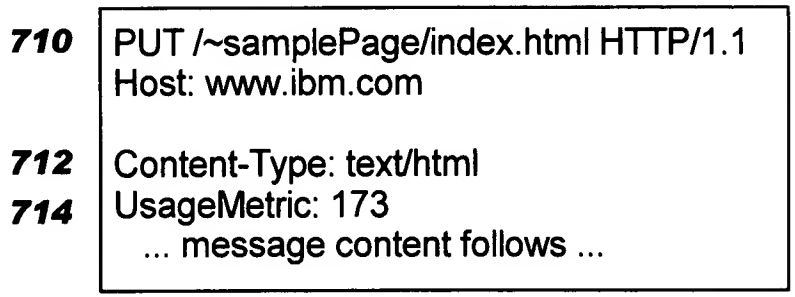

FIG. 7B

720 <META HTTP-EQUIV="UsageMetric" CONTENT="173" />

FIG. 7C

730 <META NAME="UsageMetric" VALUE="173" />

FIG. 7D

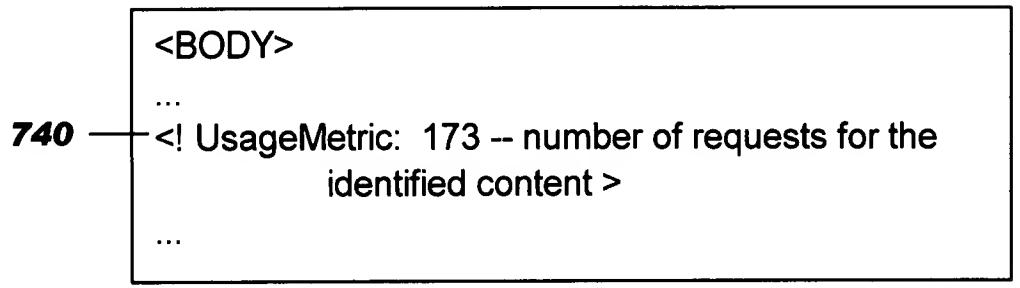

FIG. 7E

750 < DEPLOY:META HTTP-EQUIV="UsageMetric" CONTENT="173" />

FIG. 7F

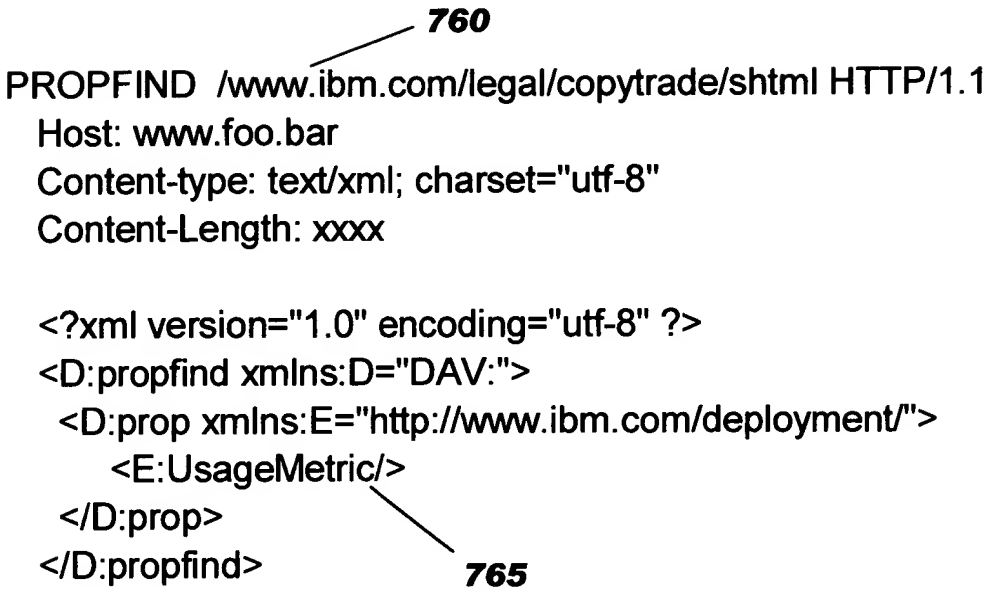

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FIG. 7G

```
HTTP/1.1 200 OK
  Content-Type: text/xml; charset="utf-8"
  Content-Length: xxxx

  <?xml version="1.0" encoding="utf-8" ?>
  <D:multistatus xmlns:D="DAV:">
   <D:response>
      <D:href>http://www.ibm.com/legal/copytrade/shtm </D:href>
      <D:propstat>
        <D:prop xmlns:E="http://www.ibm.com/deployment/">
          <E:UsageMetric>
          <E:host>
               wa.foo.bar
                    <E:value> 12 </E:value>
          </E:host>
          <E:host>
               wb.foo.bar
                    <E:value> 4 </E:value>
          </E:host>
          <E:host>
               wc.foo.bar
                     <E:value> 5 </E:value>
          </E:host>
          </E:UsageMetric>
        </D:prop>
        <D:status>HTTP/1.1 200 OK</D:status>
      </D:propstat>
   </D:response>
  </D:multistatus>
```

770

FIG. 8

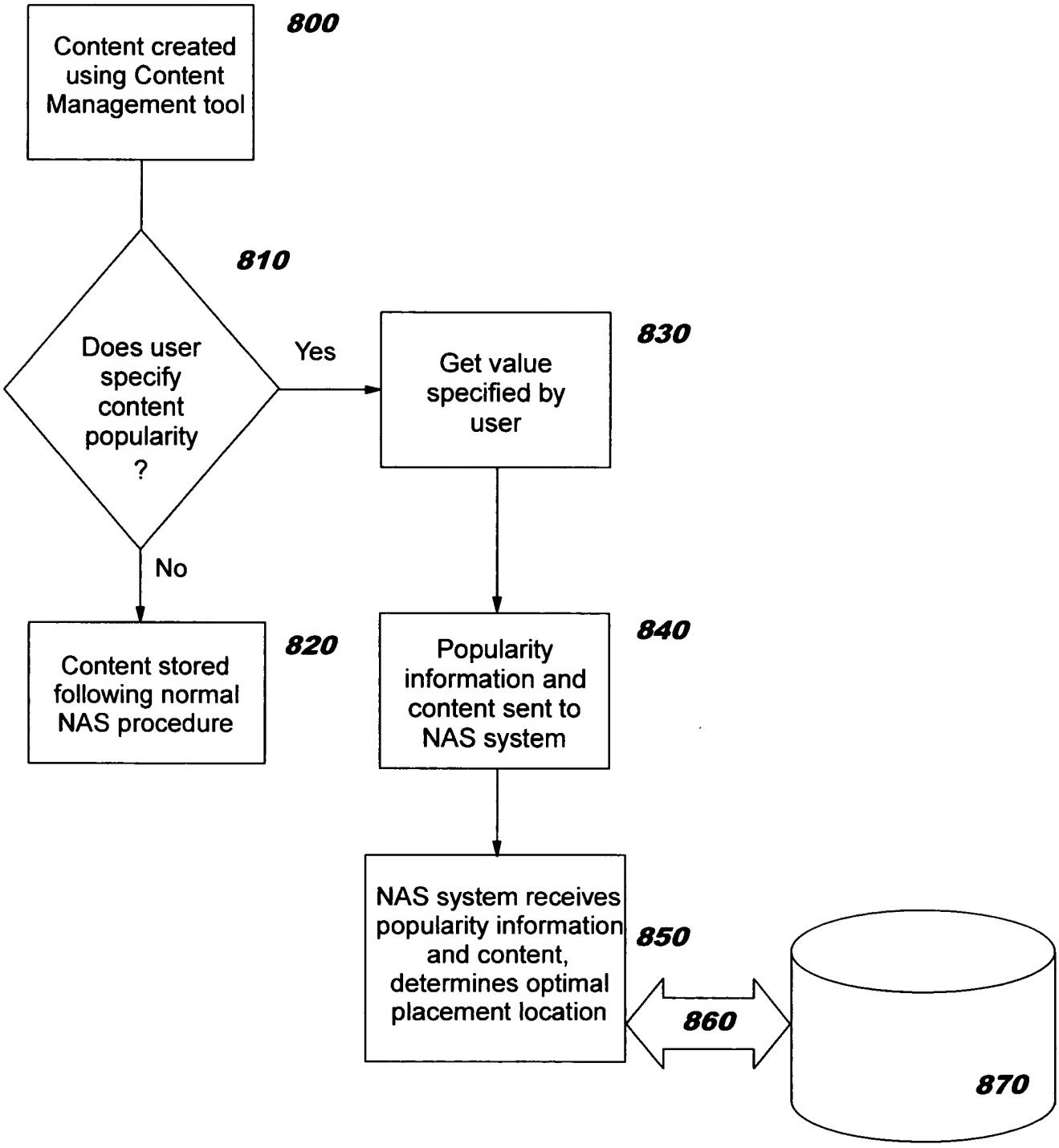
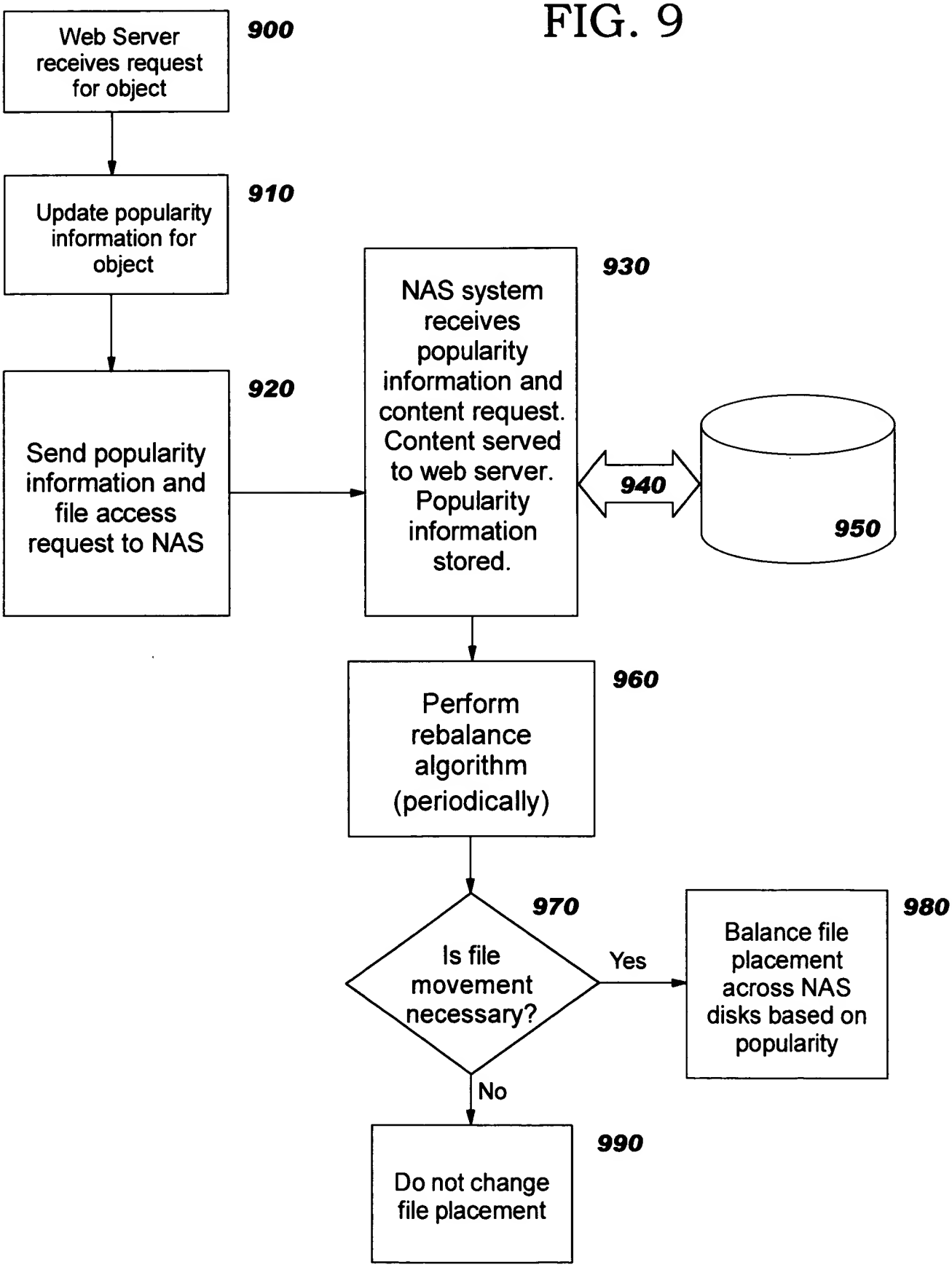

Content created using Content Management tool
800
Does user specify content popularity ?
810
Yes
No
Get value specified by user
830
Content stored following normal NAS procedure
820
Popularity information and content sent to NAS system
840
NAS system receives popularity information and content, determines optimal placement location
850
860
870

FIG. 9


Web Server receives request for object
900
Update popularity information for object
910
Send popularity information and file access request to NAS
920
NAS system receives popularity information and content request. Content served to web server. Popularity information stored.
930
940
950
Perform rebalance algorithm (periodically)
960
Is file movement necessary?
970
Yes
No
Balance file placement across NAS disks based on popularity
980
Do not change file placement
990